



**AIR POLLUTION
CONTROL DISTRICT**
COUNTY OF SAN LUIS OBISPO

DOCKET

07-AFC-8

DATE SEP 29 2008

RECD. OCT 03 2008

September 29, 2008

Perry Fontana
Ausra CA II, LLC, dba Carrizo Energy LLC
2585 East Bayshore Road
Palo Alto, CA 94303

SUBJECT: Issuance of a Modified Air Pollution Control District Authority to Construct Authorizing Two Emergency Backup Diesel Engines at the Carrizo Energy Solar Farm, San Luis Obispo County.

Dear Mr. Fontana:

Enclosed you will find a modified Air Pollution Control District Authority to Construct authorizing installation of an emergency fire water pump, and an emergency back up generator, at the Carrizo Energy Solar Farm. This action is being taken in response to your application number 4924 received by us on August 8, 2008. Your previous Authority to Construct Number 4510 for the fire water pump only has been canceled. You will note that certain conditions have been placed upon your Authority to Construct. Condition numbers 2 through 13 will be retained following this construction.

Pursuant to Rule 202 of the District's Rules and Regulations, this Authority to Construct shall expire and the application shall be canceled one (1) year from the date of issuance, if unused. As per District Rule 208, appeals to District actions on permits may be made in writing to the Hearing Board within thirty (30) days of receipt of the permit. Contact this office at the completion of construction so that an engineering inspection of your facility may be scheduled.

Also enclosed is an Authority to Construct fee invoice in the amount of \$1,188.00. The filing fee submitted with your application was credited to your account and reduced the amount now due. Please make your check payable to the San Luis Obispo County Air Pollution Control District and pay this amount within thirty (30) calendar days of the invoice date to keep your Authority to Construct valid. If you have any questions, feel free to contact Brian Aunger at this office at (805) 781-5912.

Very truly yours,

LARRY R. ALLEN
Air Pollution Control Officer

GARY E. WILLEY
Manager, Engineering Division

Enclosures

cc: Tuan Ego, California Energy Commission, w/ enclosure

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**AIR POLLUTION
CONTROL DISTRICT**
COUNTY OF SAN LUIS OBISPO

AUTHORITY TO CONSTRUCT

AN AUTHORITY TO CONSTRUCT IS GRANTED AS OF: September 29, 2008

TO: Ausra CA II, LLC, dba Carrizo Energy LLC
Legal Owner 2585 East Bayshore Road
or Operator Palo Alto, CA 94303

FOR: Installation of emergency standby diesel-fired equipment for a solar power facility:

- a. Direct drive fire pump emergency standby engine consisting of one (1) Clark Model JW6H-UF40 fire water pump powered by a diesel fueled, 300 hp, John Deere Model 6081H engine.
- b. Emergency standby generator consisting of one (1) Caterpillar SR4B Generator powered by a diesel fueled, 1341 hp, Caterpillar Model C32 engine, EPA Family Number 8CPXL32.0ESW.

Location: Carrizo Energy Solar Farm - Highway 58, Santa Margarita

Conditions:

1. The Air Pollution Control Officer (APCO) shall be notified in writing no later than three (3) business days prior to initial operation of this equipment. This Authority to Construct shall then serve as a temporary Permit to Operate for a period not to exceed three (3) months from the start-up date. The APCO shall be notified if the start-up is delayed.
2. Non-Emergency Operation
 - a. Non-emergency operation of the fire pump engine shall not exceed the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 - Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems (the number of necessary hours is nominally 30 hours per year). Proof of operating requirements for the fire pump engine shall be maintained onsite.
 - b. Non-emergency operation of the generator engine shall be limited to maintenance and performance testing only and shall not exceed thirty (30) hours per engine per calendar year. Operation for emissions testing required by the District shall not be limited by this condition.
 - c. The Air Pollution Control Officer (APCO) shall be notified in writing within seven (7) days of exceeding the yearly non-emergency operation limit.
 - d. An emergency is defined as a fire that requires the use of the fire suppression system, or failure of normal electrical power service that is beyond the control of the permit holder and does not include voluntarily disconnecting from utility grid power.

CONDITIONS (continued):

3. Only diesel fuel that meets the California Air Resources Board's specifications for on-road use shall be used to fuel the engine(s) unless otherwise approved by the APCO. Records of the fuel purchases shall be maintained and include a fuel specification sheet that shows compliance with this condition.
4. Visible emissions from the engine shall not exceed Ringlemann No. ½ or ten percent (10%) opacity for periods aggregating more than three (3) minutes in any hour.
5. A non-resettable hour meter for each engine shall be installed and maintained unless an APCO approved alternative tracking procedure is approved.
6. The engine exhaust shall discharge vertically free of obstructions.
7. An operating log for the current calendar year shall be maintained for each engine on a monthly basis. Entries shall also be made for any day that the engine is operated and for any day that the engine receives fuel. The logs shall be retained for at least three (3) years and shall include the following data:
 - a. Operating mode: emergency, maintenance, or District required testing
 - b. Engine hour meter reading at start-up,
 - c. Engine hour reading at shutdown,
 - d. Operating hours for the calendar day,
 - e. Running total calendar year to date operating hours,
 - f. Running total calendar year to date operating hours in maintenance mode,
 - g. Running total calendar year to date operating hours in emergency mode,
 - h. Estimated fuel use for the day in gallons,
 - i. Running total calendar year to date fuel use in gallons,
 - j. Fuel purchased in gallons, and
 - k. Total costs of any engine repair or reconstruction, excluding consumable items associated with standard maintenance activities.
8. Within fourteen (14) days of a request, the following information shall be submitted to the APCO for the previous calendar year:
 - a. maintenance operating hours,
 - b. emergency operating hours,
 - c. District required testing operating hours,
 - d. total engine operating hours,
 - e. total fuel usage,
 - f. copies of all fuel purchase records, and
 - g. total cost of engine repairs to date for each engine.
9. The APCO shall be notified prior to the repair or reconstruction of any diesel engine under permit. Consumable items used for regular maintenance, such as filters, hoses, belts, fluids, and glow plugs, are not considered repairs. In addition, replacement parts costing less than \$100.00 can be omitted from this requirement. This condition is a result of a state regulation on rebuilds or repairs. Extensive repairs could trigger lower

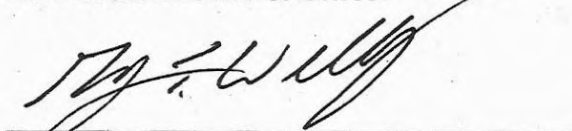
CONDITIONS (continued):

- allowable emission rates. If lower emission rates apply, they may not be achievable with a simple rebuild.
10. This equipment shall be operated and maintained in accordance with the manufacturer's recommendations and the information presented in the application under which this permit was issued.
 11. If the APCO determines that the operation of this equipment is causing a public nuisance, the owner/operator shall take immediate action and eliminate the nuisance.
 12. The APCO shall be notified in writing before any changes are made to operating procedures, equipment, or materials used which have the potential to increase the emission of any air contaminant.
 13. This permit is not transferable to a new owner or location without the APCO's approval. A change of ownership application shall be submitted to the APCO at least ten (10) working days prior to any change in the person or agency that is responsible for the operation of the equipment described above. An authority to construct application must be submitted and approved by the APCO prior to moving the permitted equipment to a new location.

This Authority to Construct is not a Permit to Operate. Approval or denial of the application for Permit to Operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the San Luis Obispo County Air Pollution Control District.

Please notify **Brian Aunger** at (805) 781-5912 or at the letterhead address when construction of equipment is complete. This Authority to Construct will expire one (1) year from the date shown, if unused.

LARRY R. ALLEN
Air Pollution Control Officer



GARY E. WILLEY
Manager, Engineering Division

Application Number: 4924